

TIL99-015, Application of Standard ISA Temperature Deviation Values to NPV Approach Procedures

Signed: 8/16/99

When developing procedures under FAA Order 8260.48, Area Navigation (RNAV) Approach Construction Criteria, paragraphs 3.2.2.2.2.1.1, 3.2.2.2.2.1.2, and 3.2.2.2.2.1.3 are used to determine the inner OCS slope for locations by considering the 5-year mean low temperature for the specific location. These paragraphs should be applied at locations where the standard deviation values cited below are not desired. Otherwise, apply the following ISA temperature deviation values in Table 3-2 as standard policy:

Contiguous 48 States: -30°C
Alaska: -40°C
Hawaii: -20°C

Determine airport ISA Celsius temperature using the following formula:

$$\text{Airport ISA temperature} = 15^{\circ}\text{C} - \left(\frac{\text{airport MSL elevation}}{500} \right)$$

$$\text{example: } 11.94^{\circ}\text{C} = 15^{\circ}\text{C} - \left(\frac{1528}{500} \right)$$

Determine the temperature below which a Baro-VNAV procedure is not authorized using the formula below. Round the result to the warmest whole degree.

$$\text{Temperature } (^{\circ}\text{C}) = \text{Airport ISA temperature} + x$$

where x = ISA temperature deviation

$$\text{example: } -18.06^{\circ}\text{C} = 11.94^{\circ}\text{C} + (-30^{\circ}\text{C})$$

round to -18°C

This TIL expires concurrently with the publication of TERPS change 19. If you have further questions, contact Jack Corman, extension 4-0012.